

AUTOMATIC CONTRAST COMPENSATION APPARATUS FOR AN ORGANIC LIGHT-EMITTING DIODE DISPLAY

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ABSTRACT OF THE DISCLOSURE

10 An automatic contrast compensation apparatus for an
OLED display comprises a photo detector, an OLED driver, a
safety clamping circuit, and a solar cell. When the intensity of
environmental light increased, the photo detector sends a signal
to the OLED driver to increase the brightness of the OLED
display and for which, the solar cell provides the extra power for
15 the OLED driver to improve the displaying performance of the
OLED display in a power-saving manner. The safety clamping
circuit prevents the OLED driver from over-current from the
solar cell.